

Fishery Management Report No. 09-04

South Unimak and Shumagin Islands June Fisheries Salmon Management Plan, 2009

by

Aaron D. Poetter

February 2009

Alaska Department of Fish and Game

Divisions of Sport Fish and Commercial Fisheries



Symbols and Abbreviations

The following symbols and abbreviations, and others approved for the Système International d'Unités (SI), are used without definition in the following reports by the Divisions of Sport Fish and of Commercial Fisheries: Fishery Manuscripts, Fishery Data Series Reports, Fishery Management Reports, and Special Publications. All others, including deviations from definitions listed below, are noted in the text at first mention, as well as in the titles or footnotes of tables, and in figure or figure captions.

Weights and measures (metric)		General		Measures (fisheries)	
centimeter	cm	Alaska Administrative		fork length	FL
deciliter	dL	Code	AAC	mideye to fork	MEF
gram	g	all commonly accepted		mideye to tail fork	METF
hectare	ha	abbreviations	e.g., Mr., Mrs., AM, PM, etc.	standard length	SL
kilogram	kg			total length	TL
kilometer	km	all commonly accepted			
liter	L	professional titles	e.g., Dr., Ph.D., R.N., etc.	Mathematics, statistics	
meter	m			<i>all standard mathematical</i>	
milliliter	mL	at	@	<i>signs, symbols and</i>	
millimeter	mm	compass directions:		<i>abbreviations</i>	
		east	E	alternate hypothesis	H _A
Weights and measures (English)		north	N	base of natural logarithm	<i>e</i>
cubic feet per second	ft ³ /s	south	S	catch per unit effort	CPUE
foot	ft	west	W	coefficient of variation	CV
gallon	gal	copyright	©	common test statistics	(F, t, χ^2 , etc.)
inch	in	corporate suffixes:		confidence interval	CI
mile	mi	Company	Co.	correlation coefficient	
nautical mile	nmi	Corporation	Corp.	(multiple)	R
ounce	oz	Incorporated	Inc.	correlation coefficient	
pound	lb	Limited	Ltd.	(simple)	r
quart	qt	District of Columbia	D.C.	covariance	cov
yard	yd	et alii (and others)	et al.	degree (angular)	°
		et cetera (and so forth)	etc.	degrees of freedom	df
Time and temperature		exempli gratia		expected value	<i>E</i>
day	d	(for example)	e.g.	greater than	>
degrees Celsius	°C	Federal Information		greater than or equal to	≥
degrees Fahrenheit	°F	Code	FIC	harvest per unit effort	HPUE
degrees kelvin	K	id est (that is)	i.e.	less than	<
hour	h	latitude or longitude	lat. or long.	less than or equal to	≤
minute	min	monetary symbols		logarithm (natural)	ln
second	s	(U.S.)	\$, ¢	logarithm (base 10)	log
		months (tables and		logarithm (specify base)	log ₂ , etc.
Physics and chemistry		figures): first three		minute (angular)	'
all atomic symbols		letters	Jan,...,Dec	not significant	NS
alternating current	AC	registered trademark	®	null hypothesis	H ₀
ampere	A	trademark	™	percent	%
calorie	cal	United States		probability	P
direct current	DC	(adjective)	U.S.	probability of a type I error	
hertz	Hz	United States of		(rejection of the null	
horsepower	hp	America (noun)	USA	hypothesis when true)	α
hydrogen ion activity	pH	U.S.C.	United States	probability of a type II error	
(negative log of)			Code	(acceptance of the null	
parts per million	ppm	U.S. state	use two-letter	hypothesis when false)	β
parts per thousand	ppt, ‰		abbreviations	second (angular)	"
			(e.g., AK, WA)	standard deviation	SD
volts	V			standard error	SE
watts	W			variance	
				population	Var
				sample	var

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SALMON MANAGEMENT PLAN, 2009**

by

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ABSTRACT

The South Unimak and Shumagin Islands June commercial salmon fisheries occur in the Alaska Peninsula Management Area (Area M) and target sockeye salmon *Oncorhynchus nerka*. The South Unimak June fishery includes the Unimak and Southwestern districts plus the Bechevin Bay, West Pavlof Bay, and East Pavlof Bay sections. The Shumagin Islands June fishery includes only the Shumagin Islands Section of the Southeastern District. The season will begin 6:00 AM June 7, consist of four 88-hour fishing periods separated by 32-hour closures, followed by a final 64-hour fishing period, and end 10:00 PM June 29. This document summarizes the strategy for management of the Alaska Peninsula June fishery and outlines the requirements of industry to participate in these fisheries in 2009.

Key words: Alaska Peninsula, Area M, Shumagin Islands, South Unimak, June fishery, commercial fisheries, sockeye salmon, *Oncorhynchus nerka*, management plan, Alaska Department of Fish and Game, FMR.

INTRODUCTION

This document provides commercial fishermen and processors with the Alaska Department of Fish and Game (ADF&G) harvest strategy for the South Unimak and Shumagin Islands June salmon fisheries. It also outlines the requirements of the industry to participate in these fisheries as well as how to provide information to the department.

The South Unimak and Shumagin Islands June commercial salmon fisheries occur in the Alaska Peninsula Management Area (Area M) and target sockeye salmon *Oncorhynchus nerka*. The South Unimak June fishery occurs in the Unimak and Southwestern districts, plus the Bechevin Bay, and West and East Pavlof Bay sections (Figure 1). The Shumagin Islands June fishery includes the Shumagin Islands Section of the Southeastern District. During the most recent 10 years (1999-2008), the South Unimak sockeye salmon harvest has averaged 607,449 fish during the June fishery (Table 1) while the Shumagin Islands sockeye salmon harvest averaged 433,519 fish (Table 2). The combined South Unimak and Shumagin Islands June fishery average sockeye salmon harvest from 1999-2008 was 1,040,969 fish (Table 3).

ANNOUNCEMENTS

Inseason announcements will be broadcast over radio station KSDP (frequency 830 AM) in Sand Point and translated over K201DA (88.1 MHz FM) in King Cove, and on VHF channels 6 and 73 daily at 9:30 AM and 5:00 PM. Recorded information may also be obtained from ADF&G in Sand Point at 907-383-2334 (383-ADFG) and Cold Bay at 907-532-2419.

HARVEST REPORTING

All buyers must report their salmon purchases daily by species (in both numbers of fish and pounds), and number of deliveries by gear type to either the ADF&G office in Sand Point or Cold Bay (5 AAC 39.130 (c)). Buyers must provide the department with catch reports by 9:30 AM the morning after purchases take place. However, earlier reporting is appreciated and helpful in conducting an orderly fishery. Contact can be made over VHF 6 and SSB 3.230 MHz. Buyers may also phone, fax, or e-mail their information to ADF&G offices in Sand Point or Cold Bay.

Sand Point	Phone: 907-383-2066	Fax: 907-383-2606	E-mail: aaron.poetter@alaska.gov
Cold Bay	Phone: 907-532-2419	Fax: 907-532-2470	E-mail: aaron.poetter@alaska.gov

Properly filled out fish tickets are essential to the management of these fisheries. An informational packet containing detailed instructions on filling out and submitting fish tickets is available to all

fish transporters, tender operators and processor/buyers at ADF&G offices in Sand Point and Cold Bay. Fish tickets must be delivered to the ADF&G offices in Sand Point or Cold Bay (addresses listed below) within seven days of the purchase date.

Alaska Department of Fish and Game
P.O. Box 129
Sand Point, AK 99661

Alaska Department of Fish and Game
P.O. Box 50
Cold Bay, AK 99571

ALASKA BOARD OF FISHERIES REGULATION CHANGES FROM THE FEBRUARY 2007 MEETING

During the February 2007 meeting, the Alaska Board of Fisheries (BOF) made the following regulatory changes to the June Management Plan (5AAC 09.365):

- 1) Modified the description of the Sanak Island Section which is now defined as the waters of the Unimak District surrounding the Sanak Islands, east of 163° 03.70' W. long. and south of the latitude of Hague Rock 54° 33.17' N. lat. (Figure 2),
- 2) Allowed the use of drift gillnet gear in the following portion of the Southwestern District (Figure 3); the Ikatan Bay section; south and east of a line from Cape Pankof Light (54° 39.60' N. lat., 163° 03.70' W. long.) to Thin Point (54° 57.32' N. lat., 162° 33.50' W. long.); south of a line from Thin Point (54° 57.32' N. lat., 162° 33.50' W. long.) to the northernmost tip of Stag Point (54° 59.10' N. lat., 162° 18.10' W. long.) on Deer Island to the southernmost tip of Dolgoi Cape (55° 03.15' N. lat., 161° 44.35' W. long.) on Dolgoi Island and south of the latitude of the northeastern tip of Dolgoi Island (55° 07.50' N. lat., 161° 38.30' W. long.),
- 3) Allow the use of salmon net pens in the Alaska Peninsula area and,
- 4) Allow two Commercial Fisheries Entry Commission (CFEC) set gillnet permit holders aboard a registered set gillnet fishing vessel, to tow a second registered CFEC set gillnet vessel that has a second aggregate of set gillnet gear onboard.

2009 MANAGEMENT PLAN

The South Unimak and Shumagin Islands June Fishery Management Plan (5 AAC 09.365) is in effect from June 7 through June 29. Complete details can be found in the Alaska Peninsula commercial salmon fishing regulations available at your local ADF&G office.

The South Unimak June fishery includes the following locations (Figure 1):

- a. Unimak District as described in 5 AAC 09.200 (c),
- b. Bechevin Bay Section as described in 5 AAC 09.200 (b)(2),
- c. Southwestern District as described in 5 AAC 09.200 (d), and
- d. West Pavlof and East Pavlof Bay sections of the South Central District as described in 5 AAC 09.200 (e)(1) and (2).

The Shumagin Islands fishery includes the Shumagin Islands Section of the Southeastern District (Figure 1) as described in 5 AAC 09.200 (f)(3).

Fishing periods for the 2009 South Unimak and Shumagin Islands June fisheries will be as follows (Figure 4):

<u>Dates and Times</u>	<u>Duration</u>
6:00 AM Sunday, June 7 until 10:00 PM Wednesday, June 10	88 hours
6:00 AM Friday, June 12 until 10:00 PM Monday, June 15	88 hours
6:00 AM Wednesday, June 17 until 10:00 PM Saturday, June 20	88 hours
6:00 AM Monday, June 22 until 10:00 PM Thursday, June 25	88 hours
6:00 AM Saturday, June 27 until 10:00 PM Monday, June 29	64 hours

Fishermen should be aware that waters closed to commercial salmon fishing, as specified under 5 AAC 09.350 are in effect during June.

Latitude and longitude coordinates in the Alaska Peninsula Management Area will be determined and enforced using the Global Positioning System (GPS; North American Datum of 1983).

Gillnet fishermen are reminded that the South Unimak and Shumagin Islands June fisheries are the only fisheries in the South Peninsula that have no minimum gillnet mesh size.

TABLES AND FIGURES

Table 1.–South Unimak June fishery commercial salmon harvest, in numbers of fish, by species, 1999-2008.

Year	Number of Fish ^a					Total
	Chinook	Sockeye	Coho	Pink	Chum	
1999	2,258	1,106,208	1	20,302	186,886	1,315,655
2000	2,064	892,016	303	210,521	168,888	1,273,792
2001	134	121,547	2	31,812	36,099	189,594
2002	433	356,157	3	33,789	201,211	591,593
2003	373	335,903	14	90,161	121,169	547,620
2004	670	531,955	159	78,808	130,626	742,218
2005	790	437,443	56	403,815	143,799	985,903
2006	1,472	491,053	432	186,096	96,016	775,069
2007	976	737,642	151	57,032	153,334	949,135
2008	1,317	1,064,570	152	800,265	284,449	2,150,753
1999-2008						
Average	1,049	607,449	127	191,260	152,248	952,133

^a Numbers of salmon do not include test fish catches.

Table 2.–Shumagin Islands June fishery commercial salmon harvest, in numbers of fish, by species, 1999-2008.

Year	Number of Fish ^a					Total
	Chinook	Sockeye	Coho	Pink	Chum	
1999	793	269,191	1	10,237	58,420	338,642
2000	785	359,212	1	149,508	70,469	579,975
2001	211	29,085	0	7,439	12,251	48,986
2002	2,010	234,949	1	42,462	177,606	457,028
2003	950	117,244	139	127,739	161,269	407,341
2004	3,753	816,118	462	281,108	351,683	1,453,124
2005	2,265	566,952	1,863	1,251,144	284,031	2,106,255
2006	3,025	441,238	2,197	1,146,223	203,811	1,796,494
2007	3,660	852,198	1,482	210,496	144,205	1,212,041
2008	1,640	649,005	26	1,171,003	126,483	1,948,157
1999-2008						
Average	1,909	433,519	617	439,736	159,023	1,034,804

^a Numbers of salmon do not include test fish catches.

Table 3.—Combined South Unimak-Shumagin Islands June fisheries commercial salmon harvest, in numbers of fish, by species, 1999-2008.

Year	Number of Fish ^a					Total
	Chinook	Sockeye	Coho	Pink	Chum	
1999	3,051	1,375,399	2	30,539	245,306	1,654,297
2000	2,849	1,251,228	304	360,029	239,357	1,853,767
2001	345	150,632	2	39,251	48,350	238,580
2002	2,443	591,106	4	76,251	378,817	1,048,621
2003	1,323	453,147	153	217,900	282,438	954,961
2004	4,423	1,348,073	621	359,916	482,309	2,195,342
2005	3,055	1,004,395	1,919	1,654,959	427,830	3,092,158
2006	4,497	932,291	2,629	1,332,319	299,827	2,571,563
2007	4,636	1,589,840	1,633	267,528	297,539	2,161,176
2008	2,957	1,713,575	178	1,971,268	410,932	4,098,910
1999-2008						
Average	2,958	1,040,969	745	630,996	311,271	1,986,938

^a Numbers of salmon do not include test fish catches.

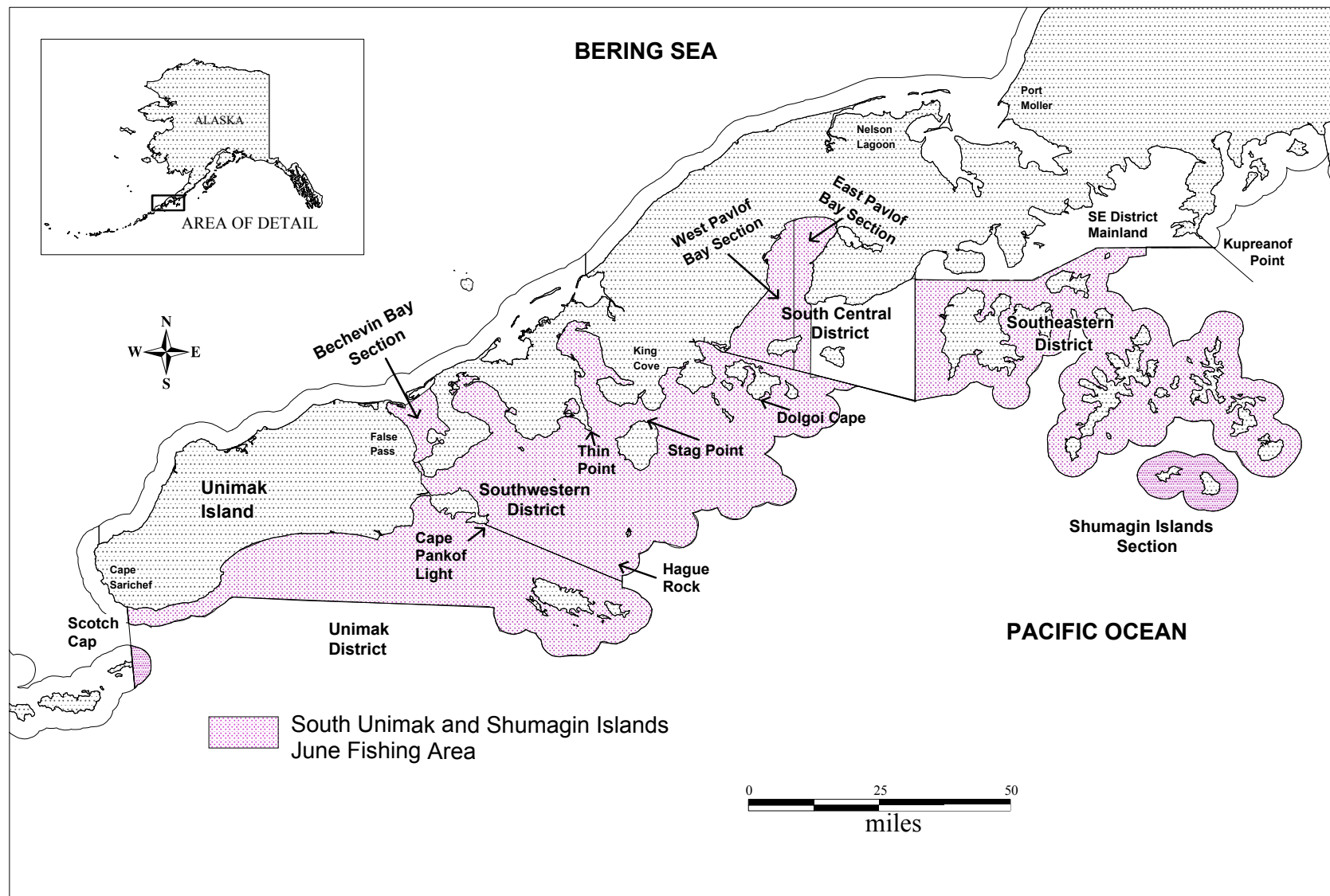


Figure 1.—Map depicting the locations of the South Unimak and Shumagin Islands June fisheries.

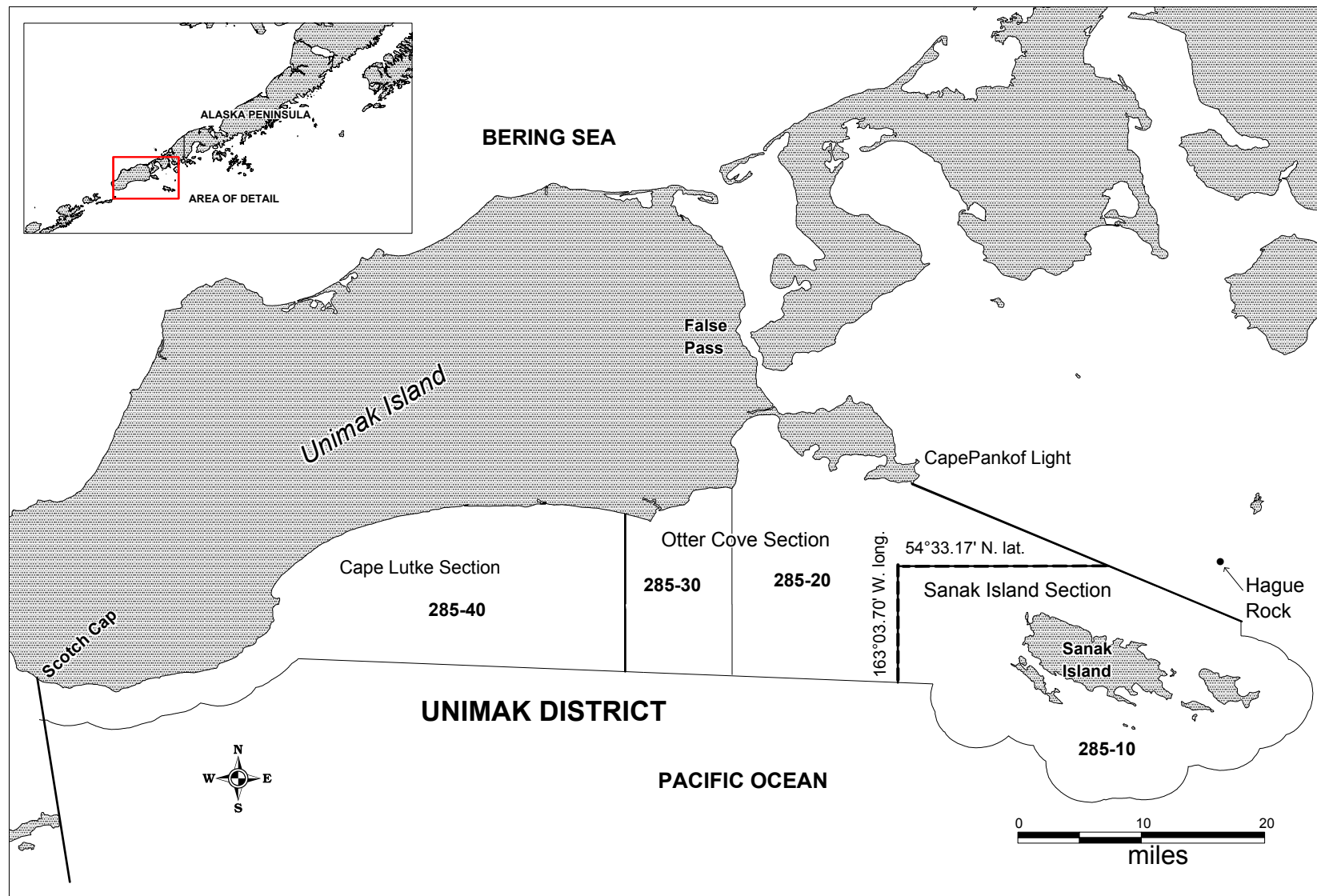


Figure 2.—Map depicting the new Sanak Island and Otter Cove section boundaries.

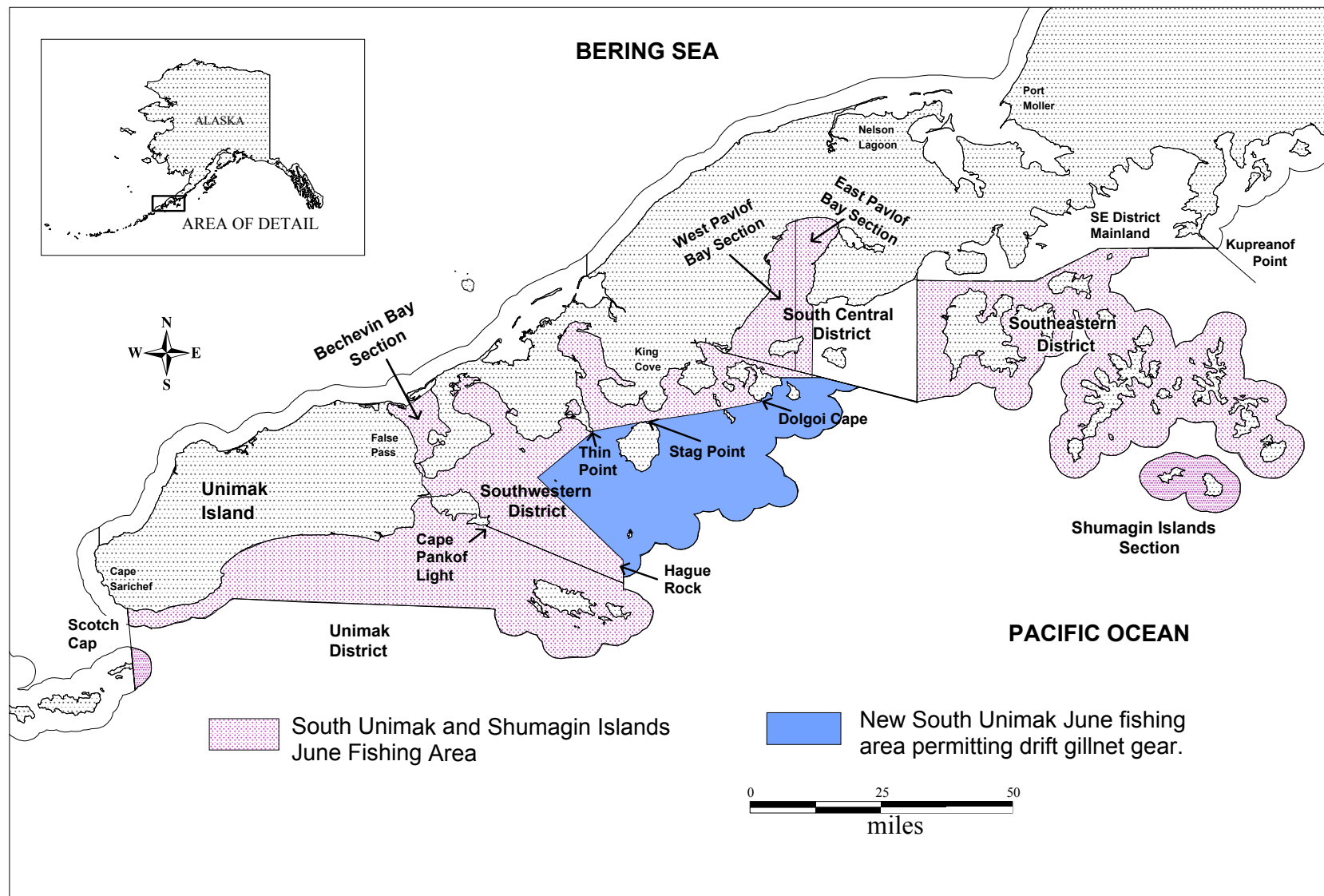


Figure 3.—Map depicting the existing South Unimak and Shumagin Islands June fishing areas and the expanded South Unimak June drift gillnet fishing area.

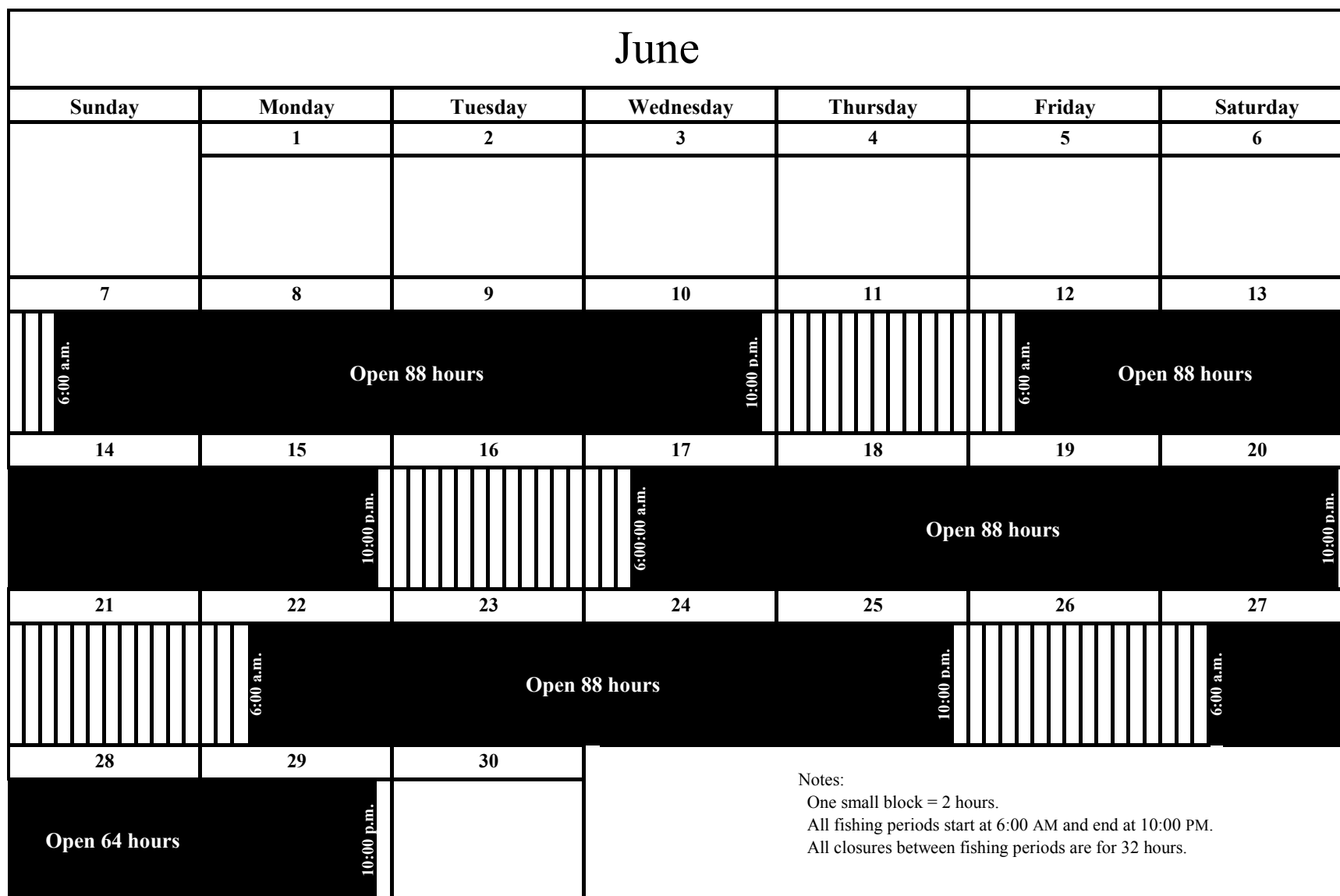


Figure 4.—Fishing time in South Unimak and Shumagin Islands June fisheries, 2009.